

# Chapter 6

## Juniper Networks Enterprise-Specific MIBs

The JUNOS software supports the following enterprise-specific MIBs:

ATM MIB—Provides support for ATM interfaces and virtual connections. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-atm.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-atm.txt).

Alarm MIB—Provides support for alarms from the router. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-chassis-alarm.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-chassis-alarm.txt).

Chassis MIB—Provides support for environmental monitoring (power supply state, board voltages, fans, temperatures, air flow) and inventory support for the chassis, SCB, SSB, SFM, FPCs, and PICs. For more information about the Chassis MIB, see “Interpret the Chassis MIB” on page 139. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-chassis.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-chassis.txt).

Class of Service MIB—Provides support for monitoring interface output queue statistics per interface and per forwarding class. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-cos.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-cos.txt).

Configuration MIB—Provides notification for configuration changes as SNMP traps. Each trap contains the time at which the configuration change was committed, the user who made the change, and the method by which the change was made. A history of the last 32 configuration changes is kept in jnxCmChgEventTable. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-cfgmgmt.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-cfgmgmt.txt).

Destination Class Usage MIB—Provides support for monitoring packet counts based on the ingress and egress points for traffic transiting your networks. Ingress points are identified by input interface. Egress points are identified by destination prefixes grouped into one or more sets, known as destination classes. One counter is managed per interface per destination class, up to a maximum of 16 counters per interface. For information about the Destination Class Usage MIB, see “Interpret the Destination Class Usage MIB” on page 207. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-dcu.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-dcu.txt).

- Firewall MIB—Provides support for monitoring firewall filter counters. Routers must have the Internet Processor II ASIC to perform firewall monitoring. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-firewall.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-firewall.txt).
- Interface MIB—Extends standard ifTable (RFC 2863) with additional statistics and Juniper Networks enterprise-specific chassis information. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-if-extensions.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-if-extensions.txt).
- IPv4 MIB—Provides additional IPv4 address information, supporting the assignment of identical IPv4 addresses to separate interfaces. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-ipv4.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-ipv4.txt).
- IPv6 and ICMPv6 MIB—Provides IPv6 and ICMPv6 statistics. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-ipv6.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-ipv6.txt).
- LDP MIB—Defines LDP LSP notifications. LDP traps only support IPv4 standards. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-ldp.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-ldp.txt).
- MPLS MIB—Provides MPLS information and defines MPLS notifications. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnxmpl.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnxmpl.txt).
- Passive Monitoring MIB—Performs traffic flow monitoring and lawful interception of packets transiting between two routers. For more information about the Passive Monitor MIB see *JUNOS Internet Software Feature Guide* and “Interpret the Passive Monitoring MIB” on page 219. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-pmon.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-pmon.txt).
- Ping MIB—Extends the standard ping MIB control table (RFC 2925). Items in this MIB are created when entries are created in the pingCtlTable of the ping MIB. Each item is indexed exactly as it is in the ping MIB. For more information about the ping MIB, see “Interpret the Ping MIB” on page 209. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-ping.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-ping.txt).
- RMON Events and Alarms MIB—Supports the JUNOS extensions to the standard RMON events and alarms MIB (RFC 2819). The extension augments the alarmTable with additional information about each alarm. Two new traps are also defined to indicate when problems are encountered with an alarm. For more information about the RMON events and alarms MIB, see “Interpret the RMON Events and Alarms MIB” on page 213. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-rmon.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-rmon.txt).
- Reverse Path Forwarding MIB—Monitors statistics for traffic that is rejected because of reverse path forwarding (RPF) processing. For more information about the reverse path forwarding MIB, see “Interpret the Reverse Path Forwarding MIB” on page 215. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-rpf.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-rpf.txt).

Source Class Usage MIB—Counts packets sent to customers by performing a lookup on the IP source address and the IP destination address. SCU makes it possible to track traffic originating from specific prefixes on the provider core and destined for specific prefixes on the customer edge. For more information about the source class usage MIB, see “Interpret the Source Class Usage MIB” on page 217. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-scu.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-scu.txt).

Structure of Management Information (SMI) MIB—Explains how the Juniper Networks enterprise-specific MIBs are structured. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-smi.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-smi.txt).

Traceroute MIB—Supports the JUNOS extensions of traceroutes and remote operations. Items in this MIB are created when entries are created in the traceRouteCtlTable of the traceroute MIB. Each item is indexed exactly the same way as it is in the traceroute MIB. For more information about the traceroute MIB, see “Interpret the Traceroute MIB” on page 211. For a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-traceroute.txt](http://www.juniper.net/techpubs/software/junos55/swconfig55-net-mgmt/html/mib-jnx-traceroute.txt).

